

Portable Sphere Spectrophotometer



Trusted. Portable. Color Measurement.

The Datacolor® CHECK 3 portable spectrophotometer. Improves usability with a new modern user interface, enhanced Bluetooth functionality, and an illuminated sample port. This enables consistent delivery of accurate color data to meet your formulation or quality control needs in paint and coatings, plastics, or textile applications.

Measure With Confidence

Exceptional Measurement Performance

CHECK 3 offers excellent correlation to Datacolor's world-renowned bench-top spectrophotometers and shares the same high-accuracy SP2000 spectrometer as our reference grade Datacolor 600 benchtop instrument. This makes CHECK 3 an instrument you can count on for highly accurate color data from measurement to measurement, and from vendor to customer, throughout your supply chain.

New Instrument Design

The horizontal orientation of the CHECK 3 allows the user to take measurements even in height constrained areas, improving ease of use.

Precise Positioning

An illuminated sample port enables direct view of the sample, through the sphere, to ensure precise positioning for sample measurement.



CHECK 3 TRUSTED. PORTABLE. COLOR MEASUREMENT.



Easy-to-Learn, Easy-to-Use

Extensive Onboard Functionality

Large color LCD screen with a completely redesigned, intuitive user interface makes the instrument easy-to-learn and easy-to-use.

- 1-click continuous sample measurement.
- Live Navigation bar enables easy access to Target, Batch, Tolerance, and other settings.
- Pass/Fail, Auto-Standard, Auto-Naming, Auto-Saving, Indices and more.

Bluetooth® and USB Peripheral Support Allows Easy Measurement Wherever You Are

- Seamlessly transfer standards and measurements back and forth between CHECK 3 and Datacolor TOOLS quality control software via Bluetooth or USB.
- Initiate sample measurement from TOOLS when connected via Bluetooth.
- Easy export of data to a USB flash-drive.
- Support for USB keyboards and bar code scanners.

Service and Support

- All instruments can be serviced in the field or at one of our many service center locations worldwide.

| TECHNICAL SPECIFICATIONS | DESCRIPTION |
|--|--|
| Measuring Geometry | d/8° |
| Sphere Diameter | 2 inches |
| Light Source | Pulsed xenon |
| Spectral Range | 400 nm - 700 nm |
| Effective Bandwidth | 10 nm |
| Wavelength Resolution | 2 nm |
| Spectrometer Principle | Concave holographic grating |
| Detector | Dual 256 element diode array |
| Color Repeatability ¹ | < 0.03 CIELAB ΔE* max on white ceramic tile |
| Color Inter-Instrument Agreement ¹ | 0.15 CIELAB ΔE* avg. of 12 BCRA tiles 0.25 CIELAB ΔE* max on any BCRA tile |
| Aperture Sizes Avail (all instruments are dual aperture) | LAV - 15mm illuminated, 11mm measured SAV - 10mm illuminated, 6.5 mm measured USAV - 6.5 mm illuminated, 2.5 mm measured |
| Battery | Rechargeable Li-Ion Battery > 2,000 measures/charge |
| Operating Environment | 5° to 40°C up to 85% RH, non-condensing |
| Interface | USB, Bluetooth wireless |

| PHYSICAL SPECIFICATIONS | DESCRIPTION |
|-------------------------|----------------------------|
| Color Display | 50.54mm x 68.62mm x 3.55mm |
| Display Resolution | 240 x 320 |
| Weight | 1.25kg |
| Dimensions | 235mm x 90mm x 99mm |

(1) Environmental Conditions:
Temperature 22.6°C +/- 2°C
RH 44% +/- 1%

| PART NUMBER | PRODUCT VERSION |
|-------------|------------------------------|
| 1030-1608 | CHECK 3 LAV/SAV |
| 1030-1609 | CHECK 3 LAV/USAV |
| 1030-1610 | CHECK 3 SAV/USAV |
| 1030-1611 | CHECK 3 LAV/SAV UV Excluded |
| 1030-1612 | CHECK 3 LAV/USAV UV Excluded |
| 1030-1613 | CHECK 3 SAV/USAV UV Excluded |

| FUNCTIONAL DATA | DESCRIPTION |
|------------------|--|
| Color Systems | CIE L*,a*,b*, C, h coordinates Hunter L, a, b coordinates Tristimulus X, Y, Z, x, y coordinates CIE 2000 |
| Color Difference | DL*, Da*, Db*, DC*, Dh*, DE* CMC color difference FMC II color differences Hunter DL, Da, Db, DE differences |
| Indices | Metamerism Index (CIE and DIN) Whiteness (CIE, E313, Hunter, Berger, Stensby) Yellowness (D1925 and E313) ISO/AATCC Staining ISO/AATCC Fastness Contrast Ratio Optical Density |
| Illuminants | D50, D55, D65, D75, A, C, U3000, Horizon, F2, F7, F11 |
| Data Storage | >2,000 standards with Tolerance, max 500 batches per standard |
| Languages | English, French, German, Portuguese, Simplified Chinese and Spanish |

For more information, please visit www.datacolor.com/check3